SONY

3-756-288-11 (1)

Electret Condenser Microphone

ECM-T110
ECM-T140
ECM-T150

Operating Instructions

Mode d'emploi

Bedienungsanleitung

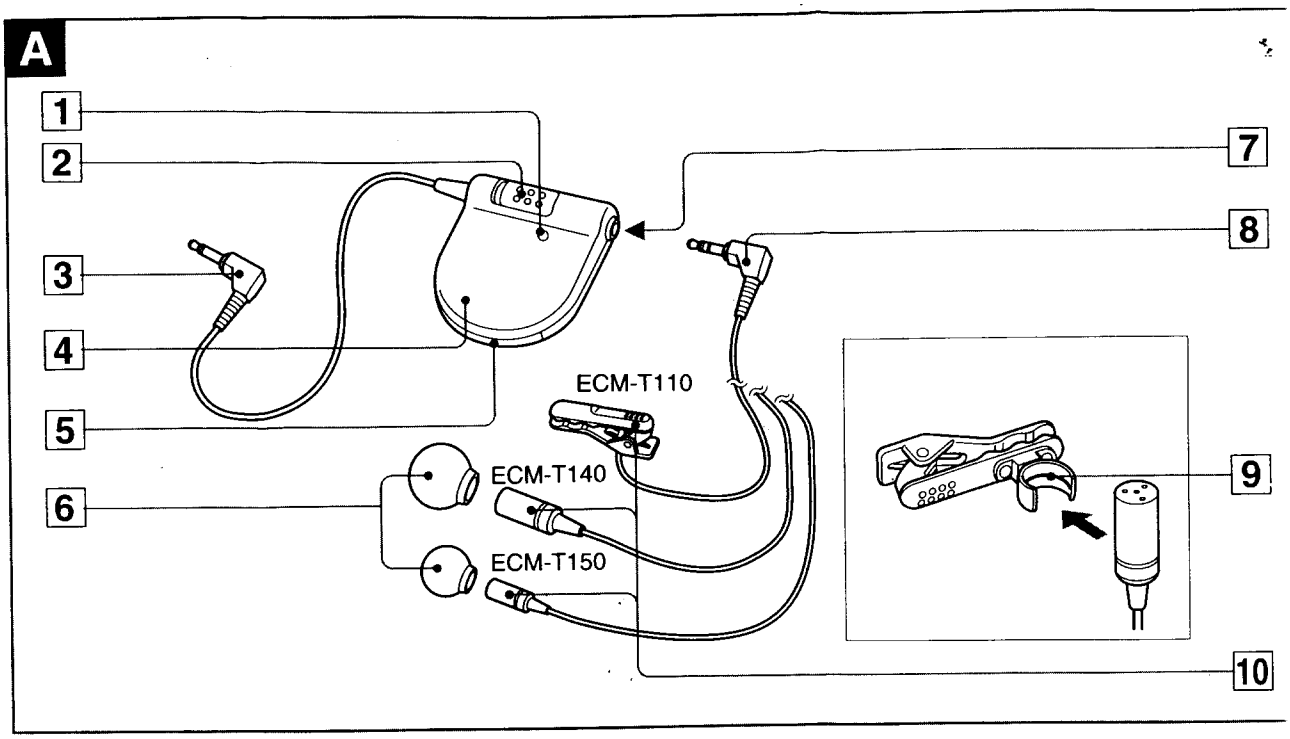
Manual de instrucciones

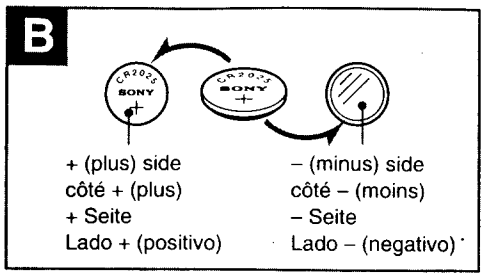
Sony Corporation © 1992 Printed in Japan

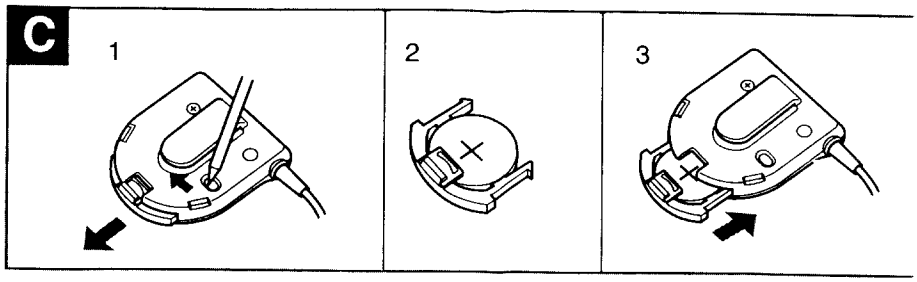
Features

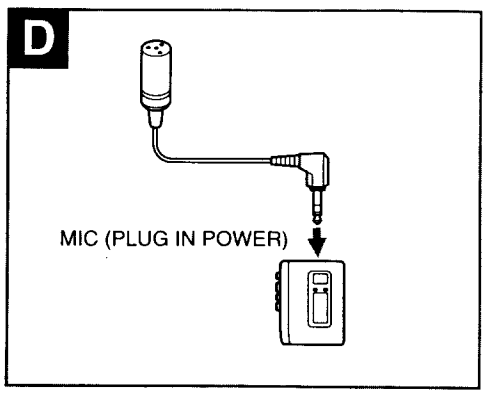
- Mini-sized tiepin type microphone which can be attached to your tie, around your collar or chest pocket (ECM-T110), and mini-sized lavalier microphone which can be attached and detached of the holder clip (ECM-T140/T150).
- Two-way powering system to correspond to the tape recorder you use: supplied battery box or plug-in power system*.

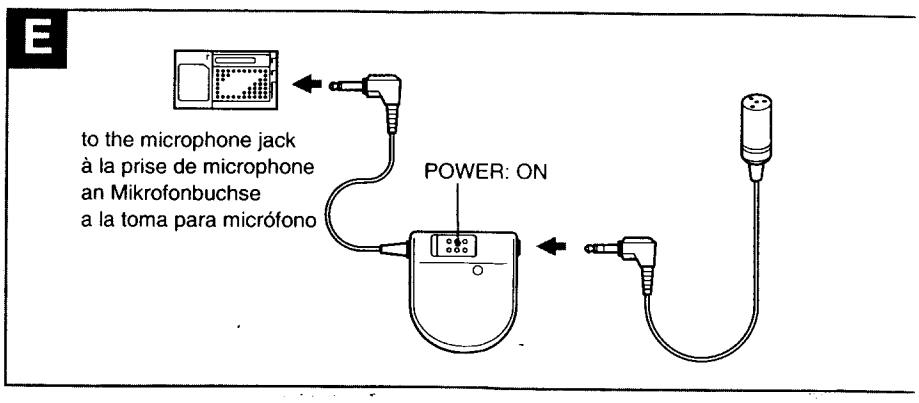
* Power to the microphone is supplied directly from the connected tape recorder.


A
1
2
3
4
5
6
7
8
9
10
ECM-T110
ECM-T140
ECM-T150


B
+ (plus) side
côté + (plus)
+ Seite
Lado + (positivo)
– (minus) side
côté – (moins)
– Seite
Lado – (negativo)


C
1
2
3


D
MIC (PLUG IN POWER)


E
to the microphone jack
à la prise de microphone
an Mikrofonbuchse
a la toma para micrófono
POWER: ON

Precautions

- The microphone should never be dropped or subjected to extreme shock.
- Keep the microphone away from extremely high temperatures (above 60°C or 140°F).
- If the microphone is placed too near a speaker, a howling effect (acoustic feedback) may occur. If this happens, separate the microphone away from the speaker or decrease the speaker volume until the howling stops.

Notes on lithium battery

- Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
- Wipe the battery with a dry cloth to assure a good contact.
- Be sure to observe the correct polarity when installing the battery.
- Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

WARNING
Battery may explode if mistreated.
Do not recharge, disassemble or dispose of in fire.

Parts Identification See fig. A.

1 **Battery check lamp**
When the POWER switch is moved from OFF to ON, this lamp will light momentarily if the battery is in good condition.
2 **POWER switch**
3 **Output plug (L-shaped 2-pole miniplug)**
4 **Battery box**
Clip portion can be attached to the inside pocket or belt, etc.
5 **Battery compartment**
6 **Wind screen (ECM-T140/T150)**
Cover the microphone with the wind screen. It will reduce wind or breath noises.
7 **Microphone jack**
8 **Output plug (L-shaped 3-pole miniplug)**
9 **Holder clip (ECM-T140/T150)**
Align the projection inside of the holder with the cut-out of the microphone.
10 **Microphone**

Battery Installation
See fig. B and fig. C.

When you connect the microphone to a tape recorder without plug-in power system, install the Sony lithium battery CR2025 (not supplied) in the battery compartment.
Install the lithium battery with correct polarity. If the battery is installed with incorrect polarity, the microphone does not operate.

1 While pushing the tip inside with some pointed object, pull out the battery compartment.
2 Install the lithium battery in the battery compartment with the + side up.
3 Insert the battery compartment in the battery box.

When to replace the battery
You can use the microphone continuously for approx. 330 hours when using the Sony lithium battery CR2025. When the battery becomes weak, the lamp will light dimply or will not light at all. In this case, replace the battery with new one (Sony lithium battery CR2025).

Connections

To use with a plug-in power system tape recorder See fig. D

Connect the L-shaped 3-pole miniplug directly to the MIC (PLUG IN POWER) jack of the tape recorder such as Sony M-607V, TCM-77, etc.

Notes

- When connecting a tape recorder whose microphone jack is also used as headphones jack such as Sony M-88V, M-909, etc., use the battery box even though that tape recorder is capable of powering a microphone (plug-in power system). When you connect the L-shaped 3-pole plug directly to the microphone jack, the tape recorder may not operate correctly.
- The signal from the microphone is supplied to both left and right channels when you connect the microphone to a stereo tape recorder with plug-in power system.

To use with a tape recorder without plug-in power system See fig. E

Use the battery box.
Connect the L-shaped 2-pole plug to the microphone jack of a tape recorder and connect the L-shaped 3-pole plug to the microphone jack of the battery box. Set the POWER switch on the battery box to ON.

Specifications

Type	Electret condenser microphone
Dimensions	Microphone ECM-T110 Approx. 7.5 × 9.5 × 41 mm (w/h/d) ($^{5}/_{16}$ × $^{3}/_{8}$ × 1 $^{5}/_{8}$ inches) ECM-T140 Approx. 8.5 × 18 mm (outside diameter × length) ($^{11}/_{32}$ × $^{23}/_{32}$ inches) ECM-T150 Approx. 5.6 × 17.7 mm (outside diameter × length) ($^{1}/_{4}$ × $^{23}/_{32}$ inches) Battery box Approx. 40 × 13 × 46 mm (w/h/d) (1 $^{5}/_{8}$ × $^{17}/_{32}$ × 1 $^{13}/_{16}$ inches)
Mass	Microphone (including cord) ECM-T110 Approx. 11 g (0.39 oz.) ECM-T140 Approx. 13 g (0.46 oz.) ECM-T150 Approx. 8 g (0.28 oz.) Battery box (including cord and battery) Approx. 18 g (0.63 oz.)
Cord	Microphone: Single core-shielded Length: Approx. 1 m (3.3 feet) 1.5 mm dia. (ECM-T110/T150) 2.2 mm dia. (ECM-T140) Battery box: Single core-shielded Length: Approx. 0.3 m (1.1 feet) 2.2 mm dia.
Supplied accessories	Battery box (1) Holder clip (1) (ECM-T140/T150) Wind screen (1) (ECM-T140/T150)
Frequency response	50 – 15,000 Hz
Directivity	Omni-directional
Output impedance	2.7 kilohms ±20%
Sensitivity	Open circuit output voltage level –45±3 dB (0 dB = 1V/Pa, 1,000 Hz 1 Pa = 10 μbar = 94 dB_{SPL}) Effective output level –55.3 ±3 dBm (0 dBm = 1 mW/Pa, 1,000 Hz)
Battery life	Approx. 330 hours with Sony lithium battery CR2025
Maximum sound pressure input level	(at 1,000 Hz, 1% distortion) More than 110 dB_{SPL} 0 dB_{SPL}= 2 × 10^{-5} Pa
Operating temperature	0°C – 40°C (32°F – 104°F)

Design and specifications are subject to change without notice.